



## RAW SEQUENCE LISTING

DATE: 08/22/2002

PATENT APPLICATION: US/10/083,424A

TIME: 16:26:39

Input Set : A:\5294-6 sequence listing for diskette - no page numbers.txt

Output Set: N:\CRF4\08222002\J083424A.raw

4 <110> APPLICANT: Avicore Biotechnology Institute Inc.  
 6 <120> TITLE OF INVENTION: Recombinant ScFv Antibodies Specific to Eimeria spp.  
 Responsible  
 7 for Coccidiosis  
 9 <130> FILE REFERENCE: Avicore-USA-1  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/083,424A  
 C--> 11 <141> CURRENT FILING DATE: 2002-08-16  
 11 <150> PRIOR APPLICATION NUMBER: KR 2001-52934  
 12 <151> PRIOR FILING DATE: 2001-08-30  
 14 <160> NUMBER OF SEQ ID NOS: 40  
 16 <170> SOFTWARE: KopatentIn 1.71  
 18 <210> SEQ ID NO: 1  
 19 <211> LENGTH: 21  
 20 <212> TYPE: DNA  
 21 <213> ORGANISM: Artificial Sequence  
 23 <220> FEATURE:  
 24 <223> OTHER INFORMATION: forward primer for PCR amplification of heavy chain variable  
 25 region  
 28 <400> SEQUENCE: 1  
 29 ggaggagacg atgacttcgg t 21  
 32 <210> SEQ ID NO: 2  
 33 <211> LENGTH: 21  
 34 <212> TYPE: DNA  
 35 <213> ORGANISM: Artificial Sequence  
 37 <220> FEATURE:  
 38 <223> OTHER INFORMATION: reverse primer for PCR amplification of heavy chain variable  
 39 region  
 42 <400> SEQUENCE: 2  
 43 gccgtgacgt tggacgagtc c 21  
 46 <210> SEQ ID NO: 3  
 47 <211> LENGTH: 21  
 48 <212> TYPE: DNA  
 49 <213> ORGANISM: Artificial Sequence  
 51 <220> FEATURE:  
 52 <223> OTHER INFORMATION: forward primer for PCR amplification of light chain variable  
 53 region  
 56 <400> SEQUENCE: 3  
 57 taggacggtc agggttgtcc c 21  
 60 <210> SEQ ID NO: 4  
 61 <211> LENGTH: 21  
 62 <212> TYPE: DNA  
 63 <213> ORGANISM: Artificial Sequence  
 65 <220> FEATURE:  
 66 <223> OTHER INFORMATION: reverse primer for PCR amplification of light chain variable

ENTERED

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RECEIVED  
 SEP 16 2002  
 TECH CENTER 1600/2900

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67      region
70 <400> SEQUENCE: 4
71 gcgctgactc agccgtcctc g
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 51
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: reverse primer for PCR amplification of heavy chain variable
81      region
84 <400> SEQUENCE: 5
85 ggcggagggtg gctctggcgg tggcggatcg gccgtgacgt tggacgagtc c
88 <210> SEQ ID NO: 6
89 <211> LENGTH: 21
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: reverse primer for PCR amplification of heavy chain variable
95      region
98 <400> SEQUENCE: 6
99 ggaggagacg atgacttcgg t
102 <210> SEQ ID NO: 7
103 <211> LENGTH: 21
104 <212> TYPE: DNA
105 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: reverse primer for PCR amplification of light chain variable
109      region
112 <400> SEQUENCE: 7
113 gcgctgactc agccgtcctc g
116 <210> SEQ ID NO: 8
117 <211> LENGTH: 51
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: forward primer for PCR amplification of light chain variable
123      region
126 <400> SEQUENCE: 8
127 agagccacct ccgcctgaac cgcctccacc taggacggtc agggttgtcc c
130 <210> SEQ ID NO: 9
131 <211> LENGTH: 21
132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: reverse primer for PCR amplification of heavy chain variable
137      region
140 <400> SEQUENCE: 9
141 gccgtgacgt tggacgagtc c
144 <210> SEQ ID NO: 10

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145 <211> LENGTH: 51
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: forward primer for PCR amplification of heavy chain variable
151     region
154 <400> SEQUENCE: 10
155 agagccacct ccgcctgaac cgcctccacc ggaggagacg atgacttcgg t
158 <210> SEQ ID NO: 11
159 <211> LENGTH: 51
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: reverse primer for PCR amplification of light chain variable
165     region
168 <400> SEQUENCE: 11
169 ggcggaggtg gctctggcgg tggcggatcg gcgctgactc agccgtcctc g
172 <210> SEQ ID NO: 12
173 <211> LENGTH: 21
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: forward primer for PCR amplification of light chain variable
179     region
182 <400> SEQUENCE: 12
183 taggacggtc agggttgtcc c
186 <210> SEQ ID NO: 13
187 <211> LENGTH: 55
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: reverse primer for PCR amplification of scFv
195 <400> SEQUENCE: 13
196 gtcctcgcaa ctgcggccca gccgggccat ggccgcgctg actcagccgt cctcg
199 <210> SEQ ID NO: 14
200 <211> LENGTH: 39
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: forward primer for PCR amplification of scFv
208 <400> SEQUENCE: 14
209 ggccaccttt gcggccgcgg aggagacgat gacttcggt
212 <210> SEQ ID NO: 15
213 <211> LENGTH: 55
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: reverse primer for PCR amplification of scFv
221 <400> SEQUENCE: 15

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222 gtcctcgcaa ctgcggccca gccgggcat ggccgccgtg acgttgacg agtcc 55
225 <210> SEQ ID NO: 16
226 <211> LENGTH: 39
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: forward primer for PCR amplification of scFv
234 <400> SEQUENCE: 16
235 ggccaccttt gcggccgcta ggacggtcag ggttgtccc 39
238 <210> SEQ ID NO: 17
239 <211> LENGTH: 369
240 <212> TYPE: DNA
241 <213> ORGANISM: chicken hybridoma cell line 2-1
243 <220> FEATURE:
244 <221> NAME/KEY: CDS
245 <222> LOCATION: (1)..(369)
247 <400> SEQUENCE: 17
248 gcc gtg acg ttg gac gag tcc ggg ggc ggc ctc cag acg ccc gga gga 48
249 Ala Val Thr Leu Asp Glu Ser Gly Gly Gly Leu Gln Thr Pro Gly Gly
250 1 5 10 15
252 gcg ctc agc ctc gtc tgc aag gcc tcc ggg ttc acc ttc agc agc cat 96
253 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser His
254 20 25 30
256 ggc atg atg tgg gtg cga cag acg ccc ggc aag ggg ctg gag tgg gtc 144
257 Gly Met Met Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Val
258 35 40 45
260 gcg ggt att agc aac act ggt act tac acg tac tac gcg ccg gcg gtg 192
261 Ala Gly Ile Ser Asn Thr Gly Thr Tyr Thr Tyr Tyr Ala Pro Ala Val
262 50 55 60
264 aag ggc cgt gcc acc atc tcg agg gac aac ggg cag agc aca gtg agg 240
265 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Val Arg
266 65 70 75 80
268 ctg cag ctg aac aac ctc agg gct gag gac acc ggc acc tac tac tgc 288
269 Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys
270 85 90 95
272 gcc aaa ggt ggt gct tat tgt gct ggt tgt ggt ggt gac atc gac gca 336
273 Ala Lys Gly Gly Ala Tyr Cys Ala Gly Cys Gly Gly Asp Ile Asp Ala
274 100 105 110
276 tgg ggc cac ggg acc gaa gtc atc gtc tcc tcc 369
277 Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
278 115 120
281 <210> SEQ ID NO: 18
282 <211> LENGTH: 123
283 <212> TYPE: PRT
284 <213> ORGANISM: chicken hybridoma cell line 2-1
286 <400> SEQUENCE: 18
287 Ala Val Thr Leu Asp Glu Ser Gly Gly Gly Leu Gln Thr Pro Gly Gly
288 1 5 10 15
290 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser His

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}

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```

291          20          25          30
293 Gly Met Met Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Val
294          35          40          45
296 Ala Gly Ile Ser Asn Thr Gly Thr Tyr Thr Tyr Tyr Ala Pro Ala Val
297          50          55          60
299 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Val Arg
300          65          70          75          80
302 Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys
303          85          90          95
305 Ala Lys Gly Gly Ala Tyr Cys Ala Gly Cys Gly Gly Asp Ile Asp Ala
306          100          105          110
308 Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
309          115          120
312 <210> SEQ ID NO: 19
313 <211> LENGTH: 372
314 <212> TYPE: DNA
315 <213> ORGANISM: chicken hybridoma cell line 5D11
317 <220> FEATURE:
318 <221> NAME/KEY: CDS
319 <222> LOCATION: (1)..(372)
321 <400> SEQUENCE: 19
322 gcc gtg acg ttg gac gag tcc ggg ggc ggc ctc cag acg ccc gga gga      48
323 Ala Val Thr Leu Asp Glu Ser Gly Gly Gly Leu Gln Thr Pro Gly Gly
324   1          5          10          15
326 gcg ctc agc ctc gtc tgc aag gcc tcc ggg ttc gac ttc agc agt tac      96
327 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Asp Phe Ser Ser Tyr
328          20          25          30
330 gac atg att tgg gtg cga cag gcg ccc ggc aag ggg ctg gaa tac gtc      144
331 Asp Met Ile Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val
332          35          40          45
334 gcg ggt att aga agt gat ggt agt agc ata tac tac ggg gcg gcg gtg      192
335 Ala Gly Ile Arg Ser Asp Gly Ser Ser Ile Tyr Tyr Gly Ala Ala Val
336          50          55          60
338 aag ggc cgt gcc acc atc tcg agg gac aac ggg cag agc act ctg agg      240
339 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Leu Arg
340          65          70          75          80
342 ctg cag ctg aac aac ctc agg gct gag gac acc ggc acc tat tac tgc      288
343 Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys
344          85          90          95
346 gcc aaa agt tct tat ggt agt tgg aga ggt tct act ggt gac atc gac      336
347 Ala Lys Ser Ser Tyr Gly Ser Trp Arg Gly Ser Thr Gly Asp Ile Asp
348          100          105          110
350 gca tgg ggc cac ggg acc gaa gtc atc gtc tcc tcc      372
351 Ala Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
352          115          120
355 <210> SEQ ID NO: 20
356 <211> LENGTH: 124
357 <212> TYPE: PRT
358 <213> ORGANISM: chicken hybridoma cell line 5D11

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VERIFICATION SUMMARY

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TIME: 16:26:40

Input Set : A:\5294-6 sequence listing for diskette - no page numbers.txt

Output Set: N:\CRF4\08222002\J083424A.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date